

Scope and Sequence							
Grade Level: 11-12			Content Area: Math				
Unit or Topic	Standards	Length of Time	Key Content	Assessment Tools	Scaffolding Strategies (Interventions, Special Education)	Resources & Materials	
Reasoning and Problem Solving	CC.2.1.HS.F.3	3 weeks	-Identify inductive and deductive reasoning -Formulate conjectures -State the difference between conjectures and theorems -Formulate problem solving strategies	In class exams, homework sets, group projects, computer algebra system	Students are allowed to make test corrections. Assessments will be modified in line with IEP's.	All content is gathered from various online or hard-copy courses. Posted in Google Classroom.	
Set Theory	CC.2.2.HS.C.1	3 weeks	-Use set builder notation -Subsets -Venn diagrams -Counting problems	In class exams, homework sets, group projects, computer algebra system	Students are allowed to make test corrections. Assessments will be modified in line with IEP's. Calculators.	All content is gathered from various online or hard-copy courses. Posted in Google Classroom.	
Logic	CC.2.2.HS.D.10	3 weeks	-Identify well-defined statements and write negations -Compound statements and logic notation -Truth tables Equivalency of compound statements -Valid and invalid arguments	In class exams, homework sets, group projects, computer algebra system	Students are allowed to make test corrections. Assessments will be modified in line with IEP's. Calculators.	All content is gathered from various online or hard-copy courses. Posted in Google Classroom.	



Course Title: Survey of Mathematics Content Area: Mathematics Grade Level: 11-12

			-Euler diagrams			
Number Theory (Counting Numbers)	CC.2.2.4.A.2 CC.2.1.HS.F.2	3 weeks	-Identify counting numbers -Identify Prime or composite numbers -Factor composite numbers -Identify theorems and conjectures -LCM's and GCF's -Fibonacci Sequence -Examples of Fibonacci numbers and the Golden Ratio	In class exams, homework sets, group projects, computer algebra system	Students are allowed to make test corrections. Assessments will be modified in line with IEP's. Calculators.	All content is gathered from various online or hard-copy courses. Posted in Google Classroom.

The Real	CC.2.1.HS.F.1	2 weeks	-Identify and classify real	In class exams,	Students are allowed	All content is
Number	CC.2.1.HS.F.2		numbers	homework sets,	to make test	gathered from
System			-Simplify numerical	group projects,	corrections.	various online or
			expressions	computer algebra	Assessments will be	hard-copy courses.
			-Rational and irrational	system	modified in line with	Posted in Google
			numbers		IEP's. Calculators.	Classroom.
			-Fractions to decimals			
			and vice-versa			
			-Decimals and percent			
Consumer	15.6.8.J	3 weeks	-Compound interest	In class exams,	Students are allowed	All content is
Math			Total interest and	homework sets,	to make test	gathered from
			monthly payments	group projects,	corrections.	various online or
			-Unearned interest	computer algebra	Assessments will be	hard-copy courses.
			-Monthly payments and	system	modified in line with	Posted in Google
			mortgages		IEP's. Calculators.	Classroom.



Course Title: Survey of Mathematics Content Area: Mathematics Grade Level: 11-12

			-Pros and cons of investments			
Management Science	CC.2.2.8.B.3	2 weeks	-Euler circuits -Hamiltonian circuits -Minimum cost spanning trees -Task schedule problems -Linear programming	In class exams, homework sets, group projects, computer algebra system	Students are allowed to make test corrections. Assessments will be modified in line with IEP's. Calculators.	All content is gathered from various online or hard-copy courses. Posted in Google Classroom.
Probability and Statistics	CC.2.4.HS.B.1 CC.2.4.HS.B.2 CC.2.4.HS.B.3 CC.2.4.HS.B.4 CC.2.4.HS.B.5 CC.2.4.HS.B.5 CC.2.4.HS.B.6 CC.2.4.HS.B.7	4 weeks	-Sampling methods -Evaluate Distribution -Probability -Random phenomenon -Normal distributions and the central limit theorem -Population proportion and confidence intervals	In class exams, homework sets, group projects, computer algebra system	Students are allowed to make test corrections. Assessments will be modified in line with IEP's. Calculators.	All content is gathered from various online or hard-copy courses. Posted in Google Classroom.
Social Choice and Decision Making	CC.2.4.7.B.1 5.3.3.E	2 weeks	-Outcomes of elections -Voting paradox -Weighted voting systems -Fair division -Hamilton Method -Game Theory	In class exams, homework sets, group projects, computer algebra system	Students are allowed to make test corrections. Assessments will be modified in line with IEP's.	All content is gathered from various online or hard-copy courses. Posted in Google Classroom.